Claims

- [c1] An isolated nucleic acid encoding a mammalian Bok protein.

 [c2] The isolated nucleic acid according to Claim 1, wherein said Bok protein comprises the amino acid sequence as set forth in SEQ ID NO:2, SEQ ID NO:4. SEQ ID NO:6 or SEQ ID NO:8.
- [c3] The isolated nucleic acid according to Claim 1, wherein said Bok protein is a BH3 i variant protein.
- [c4] An isolated nucleic acid comprising at least 18 contiguous nucleotides of the sequence of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5 or SEQ ID NO:7.
- [c5] An isolated nucleic acid that hybridizes under stringent conditions to the nucleic acid sequence of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5 or SEQ ID NO:7.
- [c6] An isolated nucleic acid encoding a BH3i variant of a pro-apoptotic Bok related protein.
- [c7] The isolated nucleic acid of Claim 6, wherein said pro-apoptotic Bok related protein is Bak or Bax.
- [c8] An expression cassette comprising a transcriptional initiation region functional in an expression host and operably linked to a nucleic acid having a sequence of the isolated nucleic acid according to Claim 1.
- [c9] A cell comprising an expression cassette according to Claim 8 as part of an extrachromosomal element or integrated into the genome of a host cell as a result of introduction of said expression cassette into said host cell, and the cellular progeny of said host cell.
- [c10] A method for producing pro-apoptotic protein, said method comprising: growing a cell according to Claim 9, whereby said protein is expressed; and isolating said protein free of other proteins.
- [c11] A purified polypeptide composition comprising at least 50% of the protein

	present as a Bok protein or a fragment thereof.
[c12]	A purified polypeptide composition comprising at least 50% of the protein
	present as a BH3 variant of a pro-apoptotic Bok related protein.
[c13]	A monoclonal antibody binding specifically to a Bok protein.
[c14]	A non-human transgenic animal model for Bok gene function wherein said transgenic animal comprises an introduced alteration in a Bok gene.
[c15]	A method of inducing apoptosis in a susceptible cell population, the method comprising:
	upregulating expression of Bok or a BH3 variant of a pro-apoptotic Bok related protein in said cell population; wherein apoptosis is induced.
[c16]	The method of Claim 15, wherein said susceptible cell population comprises reproductive tissue.
[c17]	The method of Claim 15, wherein said upregulating step comprises induction of expression of an endogenous Bok gene.
[c18]	The method of Claim 15, wherein said upregulating step comprises introduction and expression of an exogenous Bok coding sequence.
[c19]	The method of Claim 15, wherein said upregulating step comprises introduction and expression of an exogenous coding sequence for a BH3
	variant of a pro-apoptotic Bok related protein.